

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/568,471  
Source: 1 FWO  
Date Processed by STIC: 2/23/06

# ***ENTERED***

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/568,471

CRF Edit Date: 2/24/06  
Edited by: m

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

✓ Inserted mandatory headings/numeric identifiers, specifically:

42207 in sequence 273

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Revised 09/09/2003

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/568,471

DATE: 02/24/2006  
TIME: 16:50:48

Input Set : A:\PTO.AMC.txt  
Output Set : N:\CRF4\02242006\J568471.raw

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Input Set : A:\PTO.AMC.txt

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44	atttatttgg	ttcctgagga	agaccacata	ctcataattc	cagtagttcg	tggaaaggac	960
45	aacaatggaa	atctgattgg	atctgatgaa	tatgaggttt	caatcagtta	tgctgtcaca	1020
46	actgggaatt	ccacagcaca	tgcccagcaa	aatctggact	tcattgatct	tcagccaaac	1080
47	acaactggtg	tttttccacc	ttttattcat	gaatctcact	tgaaatttca	aatagttgat	1140
48	gacaccatac	cggagattgc	tgaatcgttt	cacattatgt	tactaaaaga	taccttacag	1200
49	ggagatgctg	tgctaataag	cccttctggt	gtacaagtca	ccattaagcc	aatgataaaa	1260
50	ccttatggag	tcctttcatt	caacagtgtt	ttgtttgaaa	ggacagttat	aattgatgaa	1320
51	gatagaatat	caagatatga	agaaatcaca	gtggttagaa	atggagggaac	ccatgggaat	1380
52	gtctctgcga	attgggtggt	gacaccgaac	agcactgatc	cctcaccagt	aacagcagat	1440
53	atcagaccga	gctctggagt	tcttcatttt	gcacaagggc	agatgttggc	aacaattcct	1500
54	cttactgggg	gtgatgatga	tcttccagaa	gaggcagaag	cttatctact	tcaaattctg	1560
55	cctcatacaa	tacgaggagg	tgcaagaagt	agcgagccag	cggagctttt	gttctacatt	1620
56	caggatagtg	atgatgtcta	tgccctaata	acattttttc	ctatggaaaa	ccagaagatt	1680
57	gaaagcagcc	caggtggacg	atacttatcc	ttgagtttta	caagactagg	agggactaaa	1740
58	ggagatgtga	ggttgcttta	ttctgtactt	tacattcctg	ctggagctgt	ggacccttg	1800
59	caagcaaaag	aaggcatcct	aaatatatca	aggagaaatg	acctcatttt	tccagagcaa	1860
60	aaaactcaag	tactacaaa	attaccaata	agaaatgatg	cattccttca	aatggagct	1920
61	cactttctag	tacagttgga	aactgtggag	ttgttaaaca	taattcctct	aatcccaccc	1980
62	ataagcccta	gatttgggga	aatctgcaat	atttctttac	tggttactcc	agccattgca	2040
63	aatggagaaa	ttggctttct	cagcaatctt	ccaatttatt	tgcatgaacc	agaagatttt	2100
64	gctgctgaag	tggtatacat	tcccttacct	cgggatggaa	ctgatggcca	ggctactgtc	2160
65	tactggaggt	tgaagccctc	tggttttaat	tcaaaagcag	tgaccccgga	tgatataggc	2220
66	ccctttaatg	gctctgtttt	gtttttatct	gggcaaagtg	acacaacaat	caacattact	2280
67	atcaaagggt	atgacatacc	ggaaatgaat	gaaactgtaa	cactttctct	agactggggt	2340
68	aacgtggaaa	accaagtgtc	gaaatctgga	tatactagcc	gtgacctaat	tattttggaa	2400
69	aatgatgacc	ctgggggagt	ttttgaattt	tctcctgctt	ccagaggacc	ctatgttata	2460
70	aaagaaggag	aatctgtaga	gctccacatc	atccgatcaa	gggggtccct	tgttaaagcag	2520
71	tttctacact	accgagtaga	gccaaagatg	agcaatgaat	tctatggaaa	cacgggagta	2580
72	ctagaattta	aacctggaga	aaggggagata	gtgatcacct	tgctagcaag	attggatggg	2640
73	ataccagagt	tggatgaaca	ctactgggtg	gtcctcagca	gccacggaga	acgggaaagc	2700
74	aagttgggaa	gtgccaccat	tgtcaatata	acgattctga	aaaatgatga	tcctcatggc	2760
75	attatagaat	ttgtttctga	tggtctaatt	gtgatgataa	atgaaagcaa	aggagatgct	2820
76	atctatagtg	ctgtttatga	tgtagtaaga	aatcgaggca	actttggtga	tgtagtgta	2880
77	tcatgggtgg	ttagtccaga	ctttacacaa	gatgtatttc	ctgtacaagg	gactgttgtc	2940
78	tttggagatc	aggaattttc	aaaaaatatc	accatttact	cccttcaga	tgagattcca	3000
79	gaagaaatgg	aagaattttac	cgttatccta	ctgaatggca	ctggaggagc	taaagtggga	3060
80	aatagaacaa	ctgcaactct	gaggattaga	agaaatgatg	acccatttta	ttttgcagaa	3120
81	cctcgtgtag	tgagggttca	agaaggggag	actgccaaact	ttacagttct	cagaaatgga	3180
82	tctgttgatg	tgacttgcac	ggtccagtat	gctaccaagg	atgggaaggc	tactgcaaga	3240
83	gagagagatt	tcattcctgt	tgaaaaagga	gaaacgctca	tttttgaggt	tggaagtaga	3300
84	cagcagagca	tatccatatt	tgtaaatgaa	gatggatccc	cggaaacaga	tgagcccttt	3360
85	tatataatcc	tcttgaattc	accaggtgat	ccagtagtat	atcaatatgg	agtagctaca	3420
86	gtaataattg	aagctaattga	tgacccaaat	ggcatttttt	ctctggagcc	catagacaaa	3480
87	gcagtggaa	aaggaaagac	taatgcattt	tggattttga	ggcaccgagg	atactttggt	3540
88	agtgtttctg	tatcttgcca	gctctttcag	aatgattctg	ctttgcagcc	tgggcaggag	3600
89	ttctatgaaa	cttcaggaa	tgtaaacctc	atggatggag	aagaagcaaa	accaatcatt	3660
90	ctccatgctt	ttccagataa	aattcctgaa	ttcaatgaat	tttatttcct	aaaacttgta	3720
91	aacatttcag	gtggatcccc	aggtcctggg	ggccagctag	cagaaaccaa	cctccaggtg	3780
92	acagtaattg	ctccattcaa	tgatgatccc	tttgagattt	ttatcttgga	tccagagtgt	3840

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93	ttagagagag	aagtggcaga	agatgtcctg	tctgaagatg	atatgtctta	tattaccaac	3900
94	ttcaccattt	tgaggcagca	gggtgtgttt	ggtgatgtac	aactgggctg	ggaaatactg	3960
95	tccagtgagt	tccctgctgg	tctgccacca	atgatagatt	ttttactggg	tggaaatttc	4020
96	cccaccaccg	tgcatttaca	acagcacatg	cggggtcacc	acagtggaac	ggatgctttg	4080
97	tactttaccg	gactagaagg	tgcatttggg	actggttaatt	caaaatacca	tcccttcagg	4140
98	aataatacaa	ttgccaaact	tacattttca	gcttgggtaa	tgcccaatgc	caatacgaat	4200
99	ggattcatta	tagcgaagga	tgacggtaat	ggaagcatct	actacggggg	aaaaatacaa	4260
100	acaaacgaat	cccatgtgac	actttccctt	cattataaaa	ccttgggttc	caatgctaca	4320
101	tacattgcca	agacaacagt	catgaaatat	ttagaagaaa	gtgtttggct	tcatctacta	4380
102	attatcctgg	aggatgggat	aatcgaattc	tacctggatg	gaaatgcaat	gcccagggga	4440
103	atcaagagtc	tgaaaggaga	agccattact	gacggctctg	ggatactgag	aattggagca	4500
104	gggataaatg	gcaatgacag	atttacaggg	ctgatgcagg	atgtgaggtc	ctatgagcgg	4560
105	aaactgacgc	ttgaagaaat	ttatgaactt	catgccatgc	ccgcaaaaag	tgattttacac	4620
106	ccaatttctg	gatatctgga	gttcagacag	ggagaaacta	acaaatcatt	cattattttct	4680
107	gcaagagatg	acaatgacga	ggaaggagaa	gaattattca	ttcttaaact	agtttctgta	4740
108	tatggaggag	ctcgtatttc	ggaagaaaat	actactgcaa	gattaacaat	acaaaaaagt	4800
109	gacaatgcaa	atggcttggt	tggtttcaca	ggagcttgta	taccagagat	tgacagggag	4860
110	ggatcaacca	tttcttggtg	ggttgagaga	accagaggag	ctctggatta	tgtgcatggt	4920
111	ttttacacca	tttcacagat	tgaaactgat	ggcattaatt	accttggtga	tgactttgct	4980
112	aatgccagtg	gaactattac	attccttctt	tggcagagat	cagagggttc	gaaatatatat	5040
113	gttcttgatg	atgatattcc	tgaacttaat	gagtatttcc	gtgtgacatt	ggtttctgca	5100
114	attcctggag	atgggaagct	aggctcaact	cctaccagtg	gtgcaagcat	agatcctgaa	5160
115	aaggaaacga	ctgatatcac	catcaaagct	agtgatcatc	catatggctt	gctgcagttc	5220
116	tccacagggc	tgctcctca	gcctaaggac	gcaatgaccc	tgcttgcaag	cagcgttcca	5280
117	catatcactg	tggaggagga	agatggagaa	atcagggttat	tggtcatccg	tgacacggga	5340
118	cttctgggaa	gggtgactgc	ggaatttaga	acagtgtcct	tgacagcatt	cagtcctgag	5400
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121	ttaaacttgg	aaggaggagt	agctgaactc	tttaggggtg	atggaagtgg	tagtggtgat	5580
122	ggggacatgg	aattcttctt	tccaactatt	cacaaacgtg	ccagtctagg	agtggcttcc	5640
123	caaattctag	tgacaattgc	agcctctgac	cacgctcatg	gcgtatttga	atttagccct	5700
124	gagtcactct	ttgtcagtgg	aactgaacca	gaagatgggt	atagcactgt	tacattaaat	5760
125	gttataagac	atcatggaac	tctgtctcca	gtgactttgc	attggaacat	agactctgat	5820
126	cctgatggtg	atctcgctt	cacctctggc	aacatcacat	ttgagattgg	gcagacgagc	5880
127	gccaatatca	ctgtggagat	attgcctgac	gaagaccag	aactggataa	ggcattctct	5940
128	gtgtcagtc	tcagtgtttc	cagtggttct	ttgggagctc	atattaatgc	cacgttaaca	6000
129	gttttggtcta	gtgatgatcc	atatgggata	ttcatttttt	ctgagaaaaa	cagacctgtt	6060
130	aaagttgagg	aagcaacca	gaacatcaca	ctatcaataa	taaggttgaa	aggcctcatg	6120
131	ggaaaagtcc	ttgtctcata	tgcaacacta	gatgatatgg	aaaaaccacc	ttattttcca	6180
132	cctaatttag	cgagagcaac	tcaaggaaga	gactatatac	cagcttctgg	atttgctctt	6240
133	tttgagctca	atcagagtga	ggcaacaata	gctattttca	ttttggatga	tgatgagcca	6300
134	gaaagggtcc	aatctgtctt	tatcgaacta	ctcaactcta	ctttagtagc	gaaagtacag	6360
135	agtcgttcaa	ttccaaattc	tccacgtctt	gggcctaagg	tagaaactat	tgcgcaacta	6420
136	attatcattg	ccaatgatga	tgcatttgga	actcttcagc	tctcagcacc	aattgtccga	6480
137	gtggcagaaa	atcatgttgg	accattatc	aatgtgacta	gaacaggagg	agcatttgca	6540
138	gatgtctctg	tgaagtttaa	agctgtgcca	ataacagcaa	tagctgggtga	agattatagt	6600
139	atagcttcat	cagatgtggg	cttgctagaa	ggggaaacca	gtaaaagccgt	gccaatatat	6660
140	gtcattaatg	atatctatcc	tgaactggaa	gaatcttttc	ttgtgcaact	gatgaatgaa	6720
141	acaacaggag	gagccagact	aggggcttta	acagaggcag	tcattattat	tgaggcctct	6780

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142	gatgaccct	atggattatt	tggttttcag	attactaaac	ttattgtaga	ggaacctgag	6840
143	tttaactcag	tgaaggtaaa	cctgccaaata	attcgaaatt	ctgggacact	cggcaatggt	6900
144	accgttcagt	gggttgccac	cattaatgga	cagcttgcta	ctggcgacct	gcgagttgtc	6960
145	tcaggtaatg	tgacctttgc	ccctggggaa	accattcaaa	ccttgttgtt	agaggctctg	7020
146	gctgacgacg	ttccggagat	tgaagaggtt	atccaagtgc	aactaactga	tgccctcgtg	7080
147	ggaggtagta	ttgggttaga	tcgaattgca	aatattatta	ttcctgccaa	tgatgatcct	7140
148	tatgggtacag	tagcctttgc	tcagatgggt	tatcgtgttc	aagagcctct	ggaaagaagt	7200
149	tcctgtgcta	atataactgt	caggcgaaag	ggagggcact	ttggtcggct	gttgtgtgtc	7260
150	tacagtactt	ccgacattga	tgtagtggct	ctggcaatgg	aggaaggtca	agatttactg	7320
151	tcctactatg	aatctccaat	tcaaggggtg	cctgaccac	tttgagagaac	ttggatgaat	7380
152	gtctctgccc	tgggggagcc	cctgtatacc	tgtgccactt	tgtgccttaa	ggaacaagct	7440
153	tgctcagcgt	tttcattttt	cagtgtctct	gagggtcccc	agtgtttctg	gatgacatca	7500
154	tgatcagcc	cagctgtcaa	caattcagac	ttttggacct	acaggaaaaa	catgaccagg	7560
155	gtagcatctc	tttttagtgg	tcaggctgtg	gctgggagt	actatgagcc	tgtgacaagg	7620
156	caatgggcca	taatgcagga	aggtgatgaa	ttcgcaaatc	tcacagtgtc	tattcttctt	7680
157	gatgatttcc	cagagatgga	tgagagtgtt	ctaatttctc	tccttgaagt	tcacctcatg	7740
158	aacatttcag	ccagtttgaa	aaatcagcca	accataggac	agccaaatat	ttctacagtt	7800
159	gtcatagcac	taaaagggtga	tgcccttgga	gtgtttgtga	tctacaatat	tagtcccaat	7860
160	acttccgaag	atggcttatt	tggtgaagtt	caggagcagc	cccaaaccct	ggtggagctg	7920
161	atgatacaca	ggacaggggg	cagcttaggt	caagtggcag	tcgaatggcg	tgtgttggtg	7980
162	ggaacagcta	ctgaagggtt	agattttata	ggtgctggag	agattttgac	ctttgctgaa	8040
163	ggtgaaacca	aaaagacagt	cattttaacc	atcttggatg	actctgaacc	agaggatgac	8100
164	gaaagtatca	tagttagttt	ggtgtacact	gaaggtggaa	gtagaatttt	gccaaagctcc	8160
165	gacactgtta	gagtgaacat	tttggccaat	gacaatgtgg	caggaattgt	tagctttcag	8220
166	acagcttcca	gatctgtcat	aggtcatgaa	ggagaaattt	tacaattcca	tgtgataaga	8280
167	actttccctg	gtcagggaaa	tgttactggt	aactggaaaa	ttattgggca	aaatctagaa	8340
168	ctcaattttg	ctaactttga	cggacaactt	ttctttcctg	aggggtcggt	gaatacaaca	8400
169	ttgtttgtgc	atttgttgga	tgacaacatt	cctgaggaga	aagaagtata	ccaagtcatt	8460
170	ctgtatgatg	tcaggacaca	aggagtcca	ccagccggaa	tcgccctgct	tgatgctcaa	8520
171	ggatatgcag	ctgtcctcac	agtagaagcc	agtgatgaac	cacatggagt	tttaaatttt	8580
172	gctctttcat	caagatttgt	gttactacaa	gaggctaaca	taacaattca	gcttttcac	8640
173	aacagagaat	ttggatctct	aggagctatc	aatgtcacat	ataccacggt	tcctggaatg	8700
174	ctgagtctga	agaaccaaac	agtaggaaac	ctagcagagc	cagaagtga	ttttgtccct	8760
175	atcattggct	ttctgatttt	agaagaagg	gaaacagcag	cagccatcaa	cattaccatt	8820
176	cttgaggatg	atgtaccaga	gctagaagaa	tatttctctg	tgaatttaac	ttacgtggga	8880
177	cttaccatgg	ctgcttcaac	ttcatttctt	cccagactag	attcagaagg	tttgactgca	8940
178	caagttatta	ttgatgcaa	tgatggggcc	cgagggtgta	ttgaatggca	acaaagcagg	9000
179	tttgaagtaa	atgaaacca	tggaagttaa	acattggtag	cccagaggag	cagagaacct	9060
180	cttggccatg	tttccttatt	tgtgtatgct	cagaatttgg	aagcacaagt	ggggctggat	9120
181	tatatcttca	ccccaatgat	tcttcatttt	gctgatggag	aaaggtataa	aaatgtcaat	9180
182	atcatgatgc	ttgatgatga	cattccagaa	ggagatgaaa	aatttcagct	gattttaaca	9240
183	aatccttctc	ctggactaga	gctagggaaa	aatacaatag	ccttaattat	tgtccttgct	9300
184	aatgatgacg	gccctggagt	tctatcattt	aacaacagt	agcacttttt	cctaagagag	9360
185	ccaacagctc	tctacgtcca	ggagagtgtt	gcagtattgt	acattgttcg	ggaacctgca	9420
186	caaggattgt	ttggaacagt	gacagttcag	ttcattgtga	cagaagtga	ttcctcaaat	9480
187	gaatctaaag	atctgactcc	ttccaaaggc	tatattgttt	tagaagaagg	tgttcgattc	9540
188	aaggccctac	aaatatctgc	catatttagac	acggaaccag	aaatggatga	gtattttgtt	9600
189	tgacacttgt	ttaatccaac	tggaggtgct	agactagggg	tgcatgttca	aaccttgata	9660
190	acagttttgc	aaaaccaggc	ccctttgggg	ctattcagta	tctctgcagt	tgaaaataga	9720

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191	gccacctcca	tagacatcga	agaagccaat	aggaccgtgt	atttaaagt	atctcgaact	9780
192	aatgacattg	atttggctgt	gagtgtgcag	tgaggagacag	tatctgaaac	agcctttggc	9840
193	atgaggggaa	tggatgttgt	gttttccgta	tttcaaagt	ttttggatga	atcagcttct	9900
194	ggctggtgtt	tctttacttt	ggaaaattta	atatatggta	taatgttaag	aaaatcatct	9960
195	gttactgttt	accgatggca	ggggattttt	attccagttg	aggattttaa	tatagaaaat	10020
196	cctaaaactt	gtgaggcctt	taatatgggt	ttttctccct	actttgtgat	tactcatgaa	10080
197	gaaagaaatg	aagaaaagcc	ttctcttaac	agtgtgttta	cattcacatc	tggattttaa	10140
198	ttattcctgg	tacaaacaat	cattattctg	gaaagtcttc	aagtaagata	ttttacttca	10200
199	gacagccaag	attattttaat	cattgcaagt	caaagagatg	attccgaatt	aactcaggtc	10260
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203	ctgtgcagt	ggacaacaga	agttgaggct	ttgtcttcag	ccaatgatat	ttaccttaata	10500
204	ttgtccgaaa	atgtctttct	aggagatcag	aattcaattg	atattttcat	ctgggagatg	10560
205	ggacagtctt	ccttcaggta	ttttcagttc	gtagattttg	ctgctgttaa	cagaatccac	10620
206	tccttcacac	cagcctcagg	aatagccac	atacttctta	ttgggccaag	atatgtctac	10680
207	tcttttactg	ctggaaattc	ggagcgtaat	caattctctt	ttgttctgga	agtaccttct	10740
208	gcttatgatg	tggtttctgt	tacagtaaag	tcccttaatt	caagcaagaa	tttaatatgt	10800
209	ctagtgggag	ctcattcaca	tatatatgag	ctagcctaca	tttccagcca	ttctgacttt	10860
210	attcctagtt	caggtgaact	gatatttgaa	cctggtgaga	gagaagctac	aatagcagta	10920
211	aatatccttg	atgatacagt	tccagaaaaa	gaagaatcct	tcaaagttca	acttaaaaaa	10980
212	cccaaaggag	gagcagagat	tggcattaat	gattctgtaa	caataacccat	tctgtctaat	11040
213	gatgatgcct	atggaattgt	tgcatttgct	cagaattcat	tatataagca	agtggagaa	11100
214	atggagcaag	atagcctagt	aaccttgaa	gttgaaacgt	taaaaggaa	atatggccgt	11160
215	ataaccatag	catgggaagc	tgatggaagt	attagtgata	tatttccctac	ctcaggagtg	11220
216	attttattta	ctgaaggcca	ggtactgtca	acaactcactc	taactattct	tgctgataat	11280
217	ataccagagt	tacagagggt	tgtgattgta	accctcacc	gtatcaccac	agaagggggtt	11340
218	gaggactcat	acaaagggtg	tactattgat	caggacagaa	gcaagtctgt	tataacaact	11400
219	ttgcccgaatg	actcaccttt	tggcttggtg	ggctggcgtg	ctgcgtctgt	cttcattaga	11460
220	gtagcagagc	ctaaagaaaa	caccaccact	cttcagttac	aaatagctcg	agataaagga	11520
221	ctacttgggg	atattgccat	tcacttgaga	gctcaacc	atcttctact	gcatgtcgat	11580
222	aatcaagcta	ctgagaatga	agattatgta	ttgcaagaaa	caataataat	aatgaaagaa	11640
223	aacataaaa	agctcatgc	cgaagtttcc	attttgccc	atgaccttcc	tgaattggag	11700
224	gaaggattta	ttgtcactat	cactgagggt	aacctgggtg	actctgactt	ctctacagga	11760
225	cagccaagt	tgcggaggcc	cggaaatgga	atagctgaga	taatgataga	agaaaatgac	11820
226	gatcccagag	gaatttttat	gtttcatgtt	actagaggcg	ctggggaagt	tattactgcc	11880
227	tatgagggtg	ctccaccctt	gaacgttctt	caagttcctg	tagtccggct	ggctggaagc	11940
228	tttggggcag	taaatgttta	ttggaaagca	tcaccagaca	gtgctggcct	ggaagacttt	12000
229	aaaccatctc	atgggattct	tgaatttgca	gataaacagg	ttactgcaat	gatagaaatc	12060
230	accataattg	atgatgctga	atttgaattg	acagagacgt	tcaatatttc	cttgatcagt	12120
231	gttgctggag	gtggcagact	tgggtgatgt	gttggtgtaa	ctgttggtat	tccacaaaat	12180
232	gattctccat	ttggagtatt	tggatttgaa	gaaaagactg	taatgattga	tgaatccctt	12240
233	tcacccgatg	accctgattc	atatgtgaca	ttgacgggtg	tccgggtccc	aggaggaaaa	12300
234	ggaaccgtcc	gacttgagt	gaccatagat	gagaaggcta	aacataacct	tagtcctttg	12360
235	aatgggaccc	ttcattttga	tgagactgag	tcccagaaga	ccattgtgtt	gcacacactt	12420
236	caagacacag	tgttgaggga	ggacaggcgt	ttcaccattc	agctgatatc	aattgatgag	12480
237	gtagaaatat	ctccagtaaa	aggtagtgc	tcaataatta	ttcgggggtg	taagcgagca	12540
238	tcaggagaag	ttgggatagc	tccgtcatct	aggcacatcc	tcattgggga	accctcagca	12600
239	aatataatg	gtaccgctat	tatcagcctt	gttcgaggcc	cagggatttt	gggggagggtc	12660

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/568,471

DATE: 02/24/2006  
TIME: 16:50:49

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\02242006\J568471.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 435,652

Seq#:16; N Pos. 1,3,5,416,424,463,474



## VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:16 M:283 W: Missing Blank Line separator, <120> field identifier  
L:17 M:283 W: Missing Blank Line separator, <130> field identifier  
L:18 M:270 C: Current Application Number differs, Replaced Current Application No  
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:22 M:283 W: Missing Blank Line separator, <160> field identifier  
L:24 M:283 W: Missing Blank Line separator, <210> field identifier  
L:28 M:283 W: Missing Blank Line separator, <400> field identifier  
L:356 M:283 W: Missing Blank Line separator, <400> field identifier  
L:394 M:283 W: Missing Blank Line separator, <400> field identifier  
L:415 M:283 W: Missing Blank Line separator, <400> field identifier  
L:428 M:283 W: Missing Blank Line separator, <220> field identifier  
L:432 M:283 W: Missing Blank Line separator, <220> field identifier  
L:436 M:283 W: Missing Blank Line separator, <400> field identifier  
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420  
L:447 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:600  
L:453 M:283 W: Missing Blank Line separator, <400> field identifier  
L:465 M:283 W: Missing Blank Line separator, <400> field identifier  
L:498 M:283 W: Missing Blank Line separator, <400> field identifier  
L:563 M:283 W: Missing Blank Line separator, <400> field identifier  
L:612 M:283 W: Missing Blank Line separator, <400> field identifier  
L:627 M:283 W: Missing Blank Line separator, <400> field identifier  
L:661 M:283 W: Missing Blank Line separator, <400> field identifier  
L:689 M:283 W: Missing Blank Line separator, <400> field identifier  
L:704 M:283 W: Missing Blank Line separator, <400> field identifier  
L:740 M:283 W: Missing Blank Line separator, <400> field identifier  
L:802 M:283 W: Missing Blank Line separator, <220> field identifier  
L:806 M:283 W: Missing Blank Line separator, <220> field identifier  
L:810 M:283 W: Missing Blank Line separator, <220> field identifier  
L:814 M:283 W: Missing Blank Line separator, <220> field identifier  
L:818 M:283 W: Missing Blank Line separator, <220> field identifier  
L:822 M:283 W: Missing Blank Line separator, <220> field identifier  
L:826 M:283 W: Missing Blank Line separator, <220> field identifier  
L:830 M:283 W: Missing Blank Line separator, <400> field identifier  
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360  
L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420  
L:843 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1022 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1060 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1093 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1144 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1201 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1235 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1250 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1303 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1372 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1456 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1492 M:283 W: Missing Blank Line separator, <400> field identifier

## VERIFICATION SUMMARY

DATE: 02/24/2006

PATENT APPLICATION: US/10/568,471

TIME: 16:50:49

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\02242006\J568471.raw

L:5292 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5357 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5420 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5535 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5572 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5605 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5660 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5779 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5908 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6037 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6098 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6161 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6266 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6301 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6392 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6493 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6586 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6605 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6664 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6723 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6750 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6867 M:283 W: Missing Blank Line separator, <400> field identifier  
L:6910 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7037 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7084 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7213 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7256 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7469 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7546 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7569 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7606 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7631 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7712 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7751 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7860 M:283 W: Missing Blank Line separator, <400> field identifier  
L:7981 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8014 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8047 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8096 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8171 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8190 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8287 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8334 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8361 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8374 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8427 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8560 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8566 M:283 W: Missing Blank Line separator, <400> field identifier  
L:8572 M:283 W: Missing Blank Line separator, <400> field identifier